

**CLAIMS**

What is claimed is:

- 1  
1 1. A method for copying data from an asynchronous transfer mode (ATM)  
2 connection table, comprising:  
3 (a) monitoring an ATM connection table on an ATM network;  
4 (b) determining whether entries of the ATM connection table are active;  
5 (c) periodically transferring data from active entries of the ATM connection table to  
6 memory;  
7 (d) utilizing identifiers associated with the data for identification purposes; and  
8 (e) utilizing the transferred data in the memory with an application program.
- 1 2. The method as recited in claim 1, wherein the data is transferred from the active  
2 entries of a plurality of ATM connection tables.
- 1 3. The method as recited in claim 2, wherein the plurality of ATM connection  
2 tables include one ATM connection table for each of a plurality of ATM links.
- 1 4. The method as recited in claim 3, wherein the memory includes 4Kbytes of  
2 memory.
- 1 5. The method as recited in claim 2, wherein the plurality of ATM connection  
2 tables include at least one common ATM connection table.

- 1 6. The method as recited in claim 1, wherein the entries of the ATM connection  
2 table are active if the entries have been just created since a previous transfer of  
3 data.
- 1 7. The method as recited in claim 1, wherein the entries of the ATM connection  
2 table are active if the entries have been altered since a previous transfer of data.
- 1 8. The method as recited in claim 1, wherein the data from the active entries of the  
2 ATM connection table includes statistical information.
- 1 9. The method as recited in claim 1, wherein the data from the active entries of the  
2 ATM connection table includes state information.
- 1 10. The method as recited in claim 1, wherein a period with which the data is  
2 periodically transferred from the active entries of the ATM connection table to  
3 the memory is configurable.
- 1 11. The method as recited in claim 10, wherein the period is configurable within a  
2 predetermined range.
- 1 12. The method as recited in claim 11, wherein the predetermined range is between  
2 1 transfer/second to 4 transfers/second.
- 1 13. The method as recited in claim 1, and further comprising initializing the periodic  
2 transfer of the data utilizing an application program interface between the  
3 application program and the memory.

- 1 14. The method as recited in claim 1, and further comprising ceasing the periodic  
2 transfer of the data utilizing an application program interface between the  
3 application program and the memory.
- 1 15. The method as recited in claim 13, wherein the application program interface  
2 identifies a location in the memory to which the data is to be transferred.
- 1 16. The method as recited in claim 13, wherein the application program interface  
2 identifies a period at which the data is to be transferred to the memory.
- 1 17. The method as recited in claim 1, wherein the data from each entry of the ATM  
2 connection table is transferred independently.
- 1 18. The method as recited in claim 1, wherein the memory is interrupted in order for  
2 the application program to use the transferred data...
- 1 19. The method as recited in claim 1, wherein multiple instances of the data are  
2 stored in the memory.
- 1 20. The method as recited in claim 1, wherein the memory stores the data in a  
2 circular manner.
- 1 21. The method as recited in claim 1, and further comprising identifying a last entry  
2 of the ATM connection table.
- 1 22. The method as recited in claim 1, wherein the identifiers are ATM connection  
2 identifiers.

1 23. The method as recited in claim 22, and further comprising translating the  
2 identifiers.

1 24. The method as recited in claim 1, and further comprising determining an age of  
2 the data.

1 25. The method as recited in claim 24, wherein the data is deleted upon the age  
2 reaching a predetermined amount.

1 26. A computer program product for copying data from an asynchronous transfer  
2 mode (ATM) connection table, comprising:

- 3 (a) computer code for monitoring an ATM connection table on an ATM network;  
4 (b) computer code for determining whether entries of the ATM connection table are  
5 active;  
6 (c) computer code for periodically transferring data from active entries of the ATM  
7 connection table to memory;  
8 (d) computer code for utilizing identifiers associated with the data for identification  
9 purposes; and  
10 (e) computer code for utilizing the transferred data in the memory with an  
11 application program.

1 27. The computer program product as recited in claim 26, wherein the data is  
2 transferred from the active entries of a plurality of ATM connection tables.

1 28. The computer program product as recited in claim 27, wherein the plurality of  
2 ATM connection tables include one ATM connection table for each of a  
3 plurality of ATM links.

- 1 29. The computer program product as recited in claim 28, wherein the memory  
2 includes at least 4Kbytes of memory.
- 1 30. The computer program product as recited in claim 27, wherein the plurality of  
2 ATM connection tables include at least one common ATM connection table.
- 1 31. The computer program product as recited in claim 26, wherein the entries of the  
2 ATM connection table are active if the entries have been just created since a  
3 previous transfer of data.
- 1 32. The computer program product as recited in claim 26, wherein the entries of the  
2 ATM connection table are active if the entries have been altered since a previous  
3 transfer of data.
- 1 33. The computer program product as recited in claim 26, wherein the data from the  
2 active entries of the ATM connection table includes statistical information.
- 1 34. The computer program product as recited in claim 26, wherein the data from the  
2 active entries of the ATM connection table includes state information.
- 1 35. The computer program product as recited in claim 26, wherein a period with  
2 which the data is periodically transferred from the active entries of the ATM  
3 connection table to the memory is configurable.
- 1 36. The computer program product as recited in claim 35, wherein the period is  
2 configurable within a predetermined range.

- 1 37. The computer program product as recited in claim 36, wherein the  
2 predetermined range is between 1 transfer/second to 4 transfers/second.
- 1 38. The computer program product as recited in claim 26, and further comprising  
2 initializing the periodic transfer of the data utilizing an application program  
3 interface between the application program and the memory.
- 1 39. The computer program product as recited in claim 26, and further comprising  
2 ceasing the periodic transfer of the data utilizing an application program  
3 interface between the application program and the memory.
- 1 40. The computer program product as recited in claim 39, wherein the application  
2 program interface identifies a location in the memory to which the data is to be  
3 transferred.
- 1 41. The computer program product as recited in claim 40, wherein the application  
2 program interface identifies a period at which the data is to be transferred to the  
3 memory.
- 1 42. The computer program product as recited in claim 26, wherein the data from  
2 each entry of the ATM connection table is transferred independently.
- 1 43. The computer program product as recited in claim 26, wherein the memory is  
2 interrupted in order for the application program to use the transferred data...
- 1 44. The computer program product as recited in claim 26, wherein multiple  
2 instances of the data are stored in the memory.

- 1 45. The computer program product as recited in claim 26, wherein the memory  
2 stores the data in a circular manner.
- 1 46. The computer program product as recited in claim 26, and further comprising  
2 identifying a last entry of the ATM connection table.
- 1 47. The computer program product as recited in claim 26, wherein the identifiers are  
2 ATM connection identifiers.
- 1 48. The computer program product as recited in claim 47, and further comprising  
2 translating the identifiers.
- 1 49. The computer program product as recited in claim 26, and further comprising  
2 determining an age of the data.
- 1 50. The computer program product as recited in claim 49, wherein the data is  
2 deleted upon the age reaching a predetermined amount.
- 1 51. A system for copying data from an asynchronous transfer mode (ATM)  
2 connection table, comprising:  
3 (a) logic for monitoring an ATM connection table on an ATM network;  
4 (b) logic for determining whether entries of the ATM connection table are active;  
5 (c) logic for periodically transferring data from active entries of the ATM  
6 connection table to memory; and  
7 (d) logic for utilizing identifiers associated with the data for identification purposes;  
8 (e) wherein the transferred data in the memory is capable of being used with an  
9 application program.

1 52. A method for copying data from a connection table, comprising:

- 2 (a) receiving a signal indicating that data is ready to be received by an application  
3 program;  
4 (b) identifying entries of a connection table in response to the signal;  
5 (c) determining whether the entries of the connection table are active;  
6 (d) transferring data from active entries of the connection table to memory; and  
7 (e) allowing the transferred data in the memory to be used by the application  
8 program.

1 53. A computer program product for copying data from a connection table,  
2 comprising:

- 3 (a) computer code for receiving a signal indicating that data is ready to be received  
4 by an application program;  
5 (b) computer code for identifying entries of a connection table in response to the  
6 signal;  
7 (c) computer code for determining whether the entries of the connection table are  
8 active;  
9 (d) computer code for transferring data from active entries of the connection table to  
10 memory; and  
11 (e) computer code for allowing the transferred data in the memory to be used by the  
12 application program.